

# FROWEIN GMBH & CO. KG

## Gerinol-spray

### Use

Gerinol-spray is a new type of insecticide with an active ingredient that hasn't yet been used in the section of hygiene and health protection. Developed for professional use in sensitive rooms (living- and bedrooms, hotel rooms, etc.). For control of bed bugs – but also for garden ants (*Lasius niger*), houseflies, red poultry mites, body lice and fleas.

### Type

Aerosol can (AE), 400 ml.

### Active ingredient

Geraniol (40 g/kg).

Geraniol is an acyclic monoterpene allyl alcohol. As a flowery scent, it is part in many perfumes. Geraniol is an intermediate in the production of geranyl esters, citronellol and citral. It is part in most essential oils and occurs in coriander, laurel and nutmeg. The primary part is in palmarosa oil (*Cymbopogon martinii*, 70 – 85 %), geranium oil and rose oil.

### Mode of action

Bed bugs react differently to Geraniol compared to conventional contact-insecticides (e. g. pyrethrum). Geraniol is almost only effective as a contact insecticide. To achieve an optimal effect, the insect has to be completely coated with a Geraniol film. There is no effect to the nervous system (sodium-potassium pump, block of the synapse), because the effect depends on the wetting of the insect. After the wetting, the water displacement out of the insect is very important. Geraniol is effective either through the respiratory system and/or after dissolving of the exoskeleton. According to that the cause of death is anoxia by aspiration, dehydration and/or effect of solvents to chitin and chitobiase or the wax layer that protects the body of the insect.

### Special features

- Can also be applied in very sensitive sectors.
- New type of active ingredient or new group of active substances for use in hygiene sectors: also suitable for use if resistance to other insecticides has already set in or is assumed.

### Application

Gerinol-spray is sprayed into hiding places and hollow spaces, where bed bugs are detected and suspected.

Can also be sprayed on runways and surfaces. Effective within 24 hours after contact with the insecticide. No residual effect. Same method for the other above mentioned pests.

### Monitoring

It is appropriate to find out kind and extent of infestation before each pest control. Suitable equipment in case of bed bugs is the bed bug monitor "808". Please enquire for other monitoring-systems.

### Caution

Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause long lasting harmful effects to aquatic life. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Avoid breathing spray. Wear protective

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gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISONCENTER/doctor/physician. Dispose of contents/container in accordance with local and national regulations. Vapours may form explosive mixture with air.

#### **Disposal**

Wastes resulting from the use of this product are to be disposed to an authorised waste collection point. Completely empty packages are to be offered for recycling.

#### **Packaging**

Carton with 12 cans à 400 ml.



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